



## UNITED STATES PATENT AND TRADEMARK OFFICE

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| APPLICATION NO.                 | FILING DATE    | FIRST NAMED INVENTOR      | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |  |
|---------------------------------|----------------|---------------------------|-------------------------|------------------|--|
| 09/600,848                      | 08/22/2000     | Maria Pilar Prieto-Dapena | 1379-1-013 2038         |                  |  |
| 75                              | 590 08/12/2003 |                           |                         |                  |  |
| David A Jackson                 |                |                           | EXAMINER                |                  |  |
| Klauber & Jack<br>411 Hackensac | k Avenue       |                           | GUZO, I                 | DAVID            |  |
| Hackensack, N.                  | J 07601        |                           | ART UNIT PAPER NUMBER   |                  |  |
|                                 |                |                           | 1636                    | 15               |  |
|                                 |                |                           | DATE MAILED: 08/12/2003 |                  |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Applicati n N .                                                                                         |                                               | Applicant(s) |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------|--|--|
| Offic Acti n Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 09/600,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                         | PRIETO-DAPENA ET AL.                          |              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Examine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                         | Art Unit                                      |              |  |  |
| The MAILING DATE of this commun                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | David Gu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IZO                                                                                                     | 1636                                          |              |  |  |
| The MAILING DATE of this commun Period for Reply                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               | dress        |  |  |
| A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUNI  Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm  If the period for reply specified above is less than thirty (3  If NO period for reply is specified above, the maximum state Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a eamed patent term adjustment. See 37 CFR 1.704(b).  Status | of 37 CFR 1.136(a). In no evicential in the state of the | ent, however, may a reply be tim<br>utory minimum of thirty (30) days<br>ill expire SIX (6) MONTHS from | nely filed s will be considered timely,       | mmunication. |  |  |
| 1) Responsive to communication(s) file                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ed on 19 May 2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                         |                                               |              |  |  |
| 1 2a\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2b) ☐ This action is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | non final                                                                                               |                                               |              |  |  |
| 3) Since this application is in condition                                                                                                                                                                                                                                                                                                                                                                                                                                                          | for allowance even                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | famfa                                                                                                   |                                               |              |  |  |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| 4) Claim(s) 25-48 is/are pending in the                                                                                                                                                                                                                                                                                                                                                                                                                                                            | application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                         |                                               |              |  |  |
| 4a) Of the above claim(s) is/ard                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | sideration.                                                                                             |                                               |              |  |  |
| 5) Claim(s) is/are allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| 6)⊠ Claim(s) <u>25-34 and 37-48</u> is/are rejec                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |                                               |              |  |  |
| 7)⊠ Claim(s) <u>35 and 36</u> is/are objected to                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| 8) Claim(s) are subject to restricti Application Papers                                                                                                                                                                                                                                                                                                                                                                                                                                            | on and/or election re                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | quirement.                                                                                              |                                               |              |  |  |
| 9) The specification is objected to by the                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Examiner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                         |                                               |              |  |  |
| 10) The drawing(s) filed on 8/22/00 is/are: a                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ) accepted or b) 🔽 c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | hiested to by the Every                                                                                 |                                               |              |  |  |
| Applicant may not request that any object                                                                                                                                                                                                                                                                                                                                                                                                                                                          | tion to the drawing(s) h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | e held in abovenes. Care                                                                                | 07.055                                        |              |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| If approved, corrected drawings are required in reply to this Office action.                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| 12) The oath or declaration is objected to b                                                                                                                                                                                                                                                                                                                                                                                                                                                       | y the Examiner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| Priority under 35 U.S.C. §§ 119 and 120                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| 13) Acknowledgment is made of a claim fo                                                                                                                                                                                                                                                                                                                                                                                                                                                           | r foreign priority unde                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | er 35 U.S.C. & 119(a)_(                                                                                 | d) or (f)                                     |              |  |  |
| a)⊠ All_b)□ Some * c)□ None of:                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ··· •• •.•. •. • · · · · · · · · · · · ·                                                                | u) 01 (1).                                    |              |  |  |
| 1. Certified copies of the priority do                                                                                                                                                                                                                                                                                                                                                                                                                                                             | cuments have been                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | eceived                                                                                                 |                                               |              |  |  |
| 2. Certified copies of the priority do                                                                                                                                                                                                                                                                                                                                                                                                                                                             | cuments have been i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | eceived in Application                                                                                  | No                                            |              |  |  |
| Certified copies of the priority documents have been received in Application No      Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office and the Communication of the priority of the certified Office and the Communication of the priority documents have been received in this National Stage.                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| obe the attached detailed Office action to                                                                                                                                                                                                                                                                                                                                                                                                                                                         | or a list of the certified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | copies not received                                                                                     |                                               |              |  |  |
| 14) Acknowledgment is made of a claim for o                                                                                                                                                                                                                                                                                                                                                                                                                                                        | lomestic priority unde                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | r 35 U.S.C. 8 119(e) (f                                                                                 | o a provisional apr                           | olication)   |  |  |
| The translation of the locelon language provisional configuration to                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| ) Notice of References Cited (PTO 802)                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |                                               |              |  |  |
| ) 💹 Notice of Draftsperson's Patent Drawing Review (PTO-<br>) 🔲 Information Disclosure Statement(s) (PTO-1449) Paper                                                                                                                                                                                                                                                                                                                                                                               | 948) 5) No(s) 6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Interview Summary (PT Notice of Informal Pater Other:                                                   | O-413) Paper No(s)<br>nt Application (PTO-152 |              |  |  |
| Patent and Trademark Office<br>O-326 (Rev. 04-01)                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fine Anti O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                         |                                               |              |  |  |

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## **Detailed Action**

The Substitute Specification filed 5/19/03 is acceptable and has been entered.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 25-31, 33-34, 37-40, 42-43 and 45-48 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicants disclose a genomic sequence (SEQ ID NO:1) encoding a Ha ds10 G1 gene product from sunflower plants. SEQ ID NO:1 includes 5' and 3' sequences, coding sequences and an intron. Applicants claim a genus of isolated nucleic acids, having promoter activity, comprising nucleotide sequences with at least 70% (and up to 95%) homology to SEQ ID NO:1 or a sequence complementary to SEQ ID NO:1 or fragments thereof, and with the functional limitation of the sequences or fragments thereof having an activity of SEQ ID NO:1. Applicants also claim chimeric genes comprising the aforementioned sequences or portions of SEQ ID NO:1, an expression cassette (vector) comprising said sequences, host cells comprising said sequences, transgenic plants comprising said sequences and methods of producing substances comprising transferring into plants the recited sequences or vectors.

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The written description requirement for a claimed genus may be satisfied by sufficient description of a representative number of species by actual reduction to practice or by disclosure of relevant identifying characteristics, i.e. structure or other physical and/or chemical properties, by functional characteristics coupled with a known or art recognized correlation between function and structure, or by a combination of such identifying characteristics sufficient to show applicant was in possession of the claimed genus.

In the instant case, applicants claim Ha ds10 G1 genes or promoters which have certain homologies to the single Ha ds10 G1 gene (and promoter) sequence disclosed by applicants and have an activity of the disclosed sequence. However, neither applicants nor the prior art discloses a relationship between the structure of the instantly disclosed sunflower Ha ds10 G1 gene and its function. Indeed, applicant indicates that the "distribution and accumulation pattern of Ha ds10 G1 is different from that presented by other plant genes belonging to the same family..." (Page 12 of the specification) and therefore comparisons between the Ha ds10 G1 gene and other members of the family to which it belongs may not be fruitful with regard to defining functional motifs. Applicants provide no relationship between the structure of the Ha ds10 G1 gene and the functional behavior of the protein encoded by said gene. Also, the regulatory elements of the gene (promoter regions, 3' regulatory sequences, etc.) cannot be predicted based upon the sequence of one example. These elements must be determined empirically. The disclosure of one example of a Ha ds10 G1 gene cannot therefore be considered to constitute a representative number of examples sufficient to

indicate to the skilled artisan that applicants were in possession of the claimed genus. Also, given the lack of a disclosed or art recognized relationship between the structure of the Ha ds10 G1 gene and it's functions in the cell, it must be considered that the skilled artisan would not conclude that applicant was in possession of the claimed genus. Given that applicants were not in possession of the claimed genus of sequences, applicants were also not in possession of the expression cassettes, vectors, host cells and transgenic plants containing said sequences and the methods of use of said sequences to express proteins.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 31-33, 40-41, 43-48 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 31-33, 40, 43 and 46 (and dependent claims) are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: the other component of the "chimeric gene" Applicants claim chimeric genes but only recite one component of the chimeric gene (i.e. SEQ ID NO:1 or sequences complementary to SEQ ID NO:1 or fragments of SEQ ID NO:1 having an activity of SEQ ID NO:1) without reciting the other component(s) and how they are functionally or operably linked.

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Claims 37-38 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: the relationship between the "chimeric gene" and Ha ds10 G1 sequences (SEQ ID NO:1, sequences homologous thereto, etc.). It is unclear if the chimeric gene is comprised of the Ha ds10 G1 sequences and some other undisclosed sequence(s)?

No Claims are allowed.

Claims 35-36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Guzo, Ph.D., whose telephone number is (703) 308-1906. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Irem Yucel, Ph.D., can be reached on (703) 305-1998. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4242. Faxes may be submitted directly to the examiner at (703) 746-5061.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

David Guzo August 5, 2003

DAVID GUZO RIMARY ZAMINER